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APPLICANT : TEXAS INSTR INC <TI>;

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TITLE : DEVICE AND METHOD FOR DRIVING SPINDLE MOTOR OF HARD DISK DRIVE

**ABSTRACT :** PROBLEM TO BE SOLVED: To enable a pulse width modulating system and a linear current control system to selectively use a single comprehensive chip by generating a spindle motor control signal from a spindle control block 120 upon receiving the output signal of a multiplexer which selects a pulse width modulating signal or a current control signal as its own output signal.

**SOLUTION:** A spindle control block 120 can control the driving current of a spindle motor 400 by performing either pulse width modulation or linear current control. A multiplexer 127 receives a select signal for deciding whether the pulse width modulation or linear current control is to be utilized through one 127a of its input ports and a pulse width modulating signal through another input port 127c and supplies the input type selected by means of the inputted select signal to a spindle driver 125. The driver 125 generates a control signal to the motor 400 upon receiving the output signal of the multiplexer 127.

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